### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 200.8

Client ID:

CB330001-Influent

Date Received: Date Extracted: 06/05/12 06/06/12

Date Analyzed: Matrix: Units:

06/07/12 Water ug/L (ppb) Client:

Landau Associates

Project:

BMP Treatment Unit, F&BI 206062

Lab ID: Data File:

206062-01 206062-01.023 ICPMS1

AP

Instrument: Operator:

Lower

Upper

Internal Standard:

Germanium

% Recovery:

99

Limit: 60

Limit: 125

Concentration

Analyte:

ug/L (ppb)

Copper

129

### **ENVIRONMENTAL CHEMISTS**

# Analysis For Total Metals By EPA Method 200.8

Client ID: Date Received: Method Blank Not Applicable

Date Extracted: Date Analyzed: Matrix: 06/06/12 06/07/12 Water ug/L (ppb) Client:

Landau Associates

Project:

BMP Treatment Unit, F&BI 206062

Lab ID: Data File:

I2-363 mb I2-363 mb.008 ICPMS1

Instrument: Operator:

AP

Internal Standard: Germanium % Recovery: 95 Lower Limit: 60 Upper Limit: 125

Concentration

Analyte:

Units:

ug/L (ppb)

Copper

<1

#### **ENVIRONMENTAL CHEMISTS**

Date of Report: 06/13/12 Date Received: 06/05/12

Project: BMP Treatment Unit Testing, F&BI 206062

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 206022-13 (Matrix Spike)

				$\mathbf{Percent}$	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Copper	ug/L (ppb)	20	<1	91	94	52-134	3

Laboratory Code: Laboratory Control Sample

	Percent										
	Reporting	Spike	Recovery	Acceptance Criteria							
Analyte	Units	Level	LCS								
Copper	ug/L (ppb)	20	96	81-120							

#### **ENVIRONMENTAL CHEMISTS**

### **Data Qualifiers & Definitions**

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- A1 More than one compound of similar molecule structure was identified with equal probability.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.
- c The presence of the analyte indicated may be due to carryover from previous sample injections.
- d The sample was diluted. Detection limits may be raised due to dilution.
- ds The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb Analyte present in the blank and the sample.
- fc The compound is a common laboratory and field contaminant.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht Analysis performed outside the method or client-specified holding time requirement.
- ip Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The result is below normal reporting limits. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- js The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the compound indicated is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- vo The value reported fell outside the control limits established for this analyte.
- x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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ab 10	Project Name Maskan Copy Project Location/Event BM To Sampler's Name Lose many Project Contact Terry Thomps Send Results To Terry Thomps Sample I.D. C. B330001-Influent	Trime in-Ales son, Go	t Unit wer Kan (cff my thui Time	Testive Testiv	og thut Kalina	ar/		gee			Test	ing P	aram	neter	Turnaround Time Standard Accelerated  Observations/Comments  X Allow water samples to settle, collect aliquot from clear portion X. NWTPH-Dx - run acid wash/silica gel cleanup
									San	glum	s rec	eived	lat_	6	run samples standardized to product Analyze for EPH if no specific product identified VOC/BTEX/VPH (soll): non-preserved preserved w/methanol preserved w/sodium bisulfate Freeze upon receipt Dissolved metal water samples field filtered Other
	Special Shipment/Handling or Storage Requirements on Relinquished by Signature Rage Mary Trimmer Printed Name  Printed Name  Company  Date 4 12 Time 4:50	Siç Pri	gnature inted Name	1/NF	† ) Time <u></u>	<b>Sp</b> (	-	Relino Signato Printed Compa	ire Name			Fime		Method Shipme	

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 e-mail: fbi@isomedia.com

June 13, 2012

Joe Kalmer, Project Manager Landau Associates 130 2nd Ave. S. Edmonds, WA 98020

Dear Mr. Kalmer:

Included are the results from the testing of material submitted on June 5, 2012 from the BMP Treatment Unit Testing, PO M08920, F&BI 206062 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Matthew Langston Project Manager

Enclosures

c: Gerald Thompson, Gary Huitsing, Rosemary Trimmer

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